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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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MAR 24 2003
PATENT & TRADEMARK OFFICE
In Re Application of)
Huang.) Examiner: UNKNOWN
Serial No.: 09/690,915) Group Art Unit: 2654
Filed: 10/17/2000)
For: METHOD AND APPARATUS) RECEIVED
FOR HIGH PERFORMANCE
LOW BIT-RATE CODING
OF UNVOICED SPEECH) MAR 26 2003
Technology Center 2600

LETTER TO OFFICIAL DRAFTSMAN
TRANSMITTING FORMAL DRAWINGS

Asst. Commissioner of Patents
Washington, D.C. 20231

Dear Sir:

Enclosed for filing in the subject application are nine (9) sheets of formal drawings.

Respectfully submitted,

Dated: March 19, 2003

By: S. H. - B.
S. Hossain Beladi
Attorney for Applicant
Registration No. 42,311

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on:

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Caprice P. Hall

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(Signature)

March 19, 2003

(Date of Signature)

QUALCOMM Incorporated
Attn: Patent Department
5775 Morehouse Drive
San Diego, California 92121-1714
Telephone: (858) 651-4470
Facsimile: (858) 658-2502

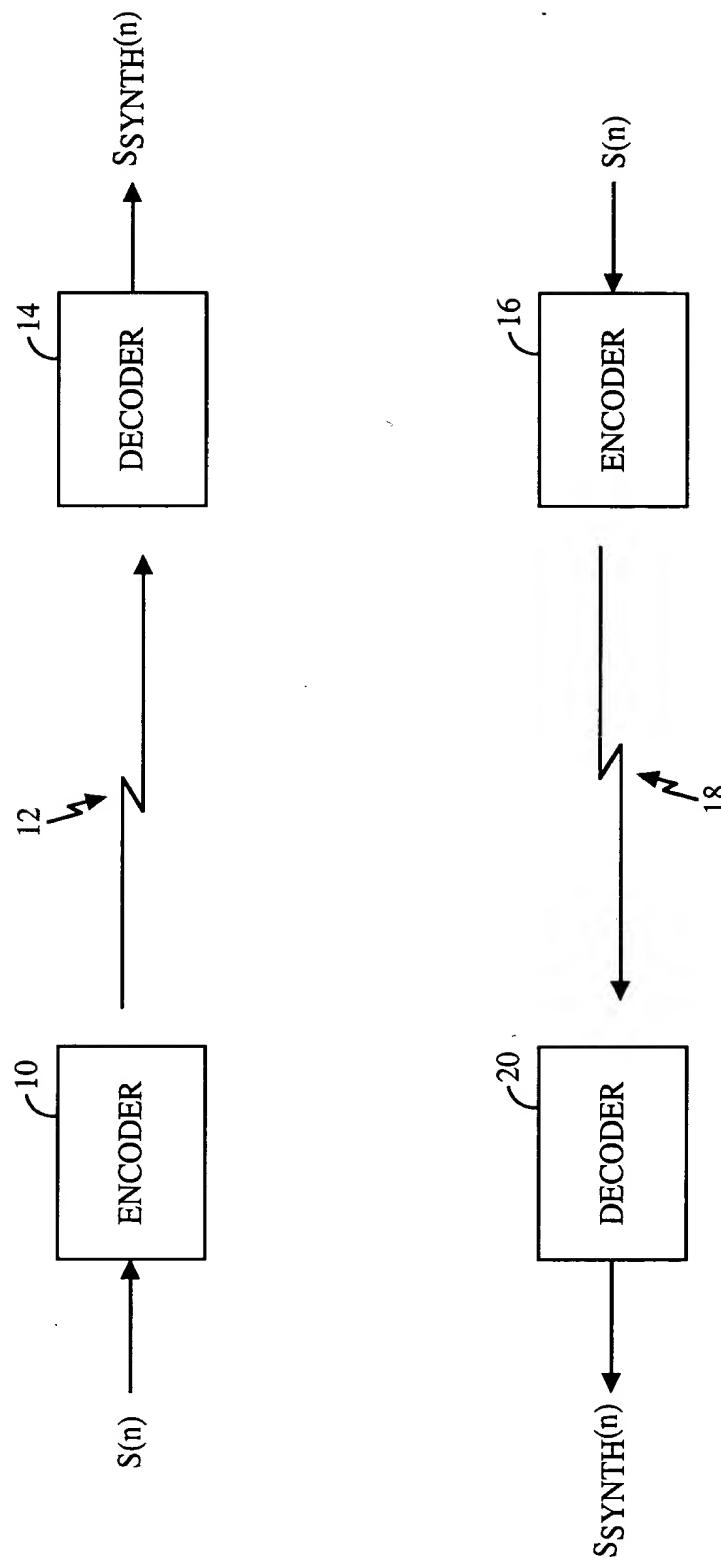


FIG. 1

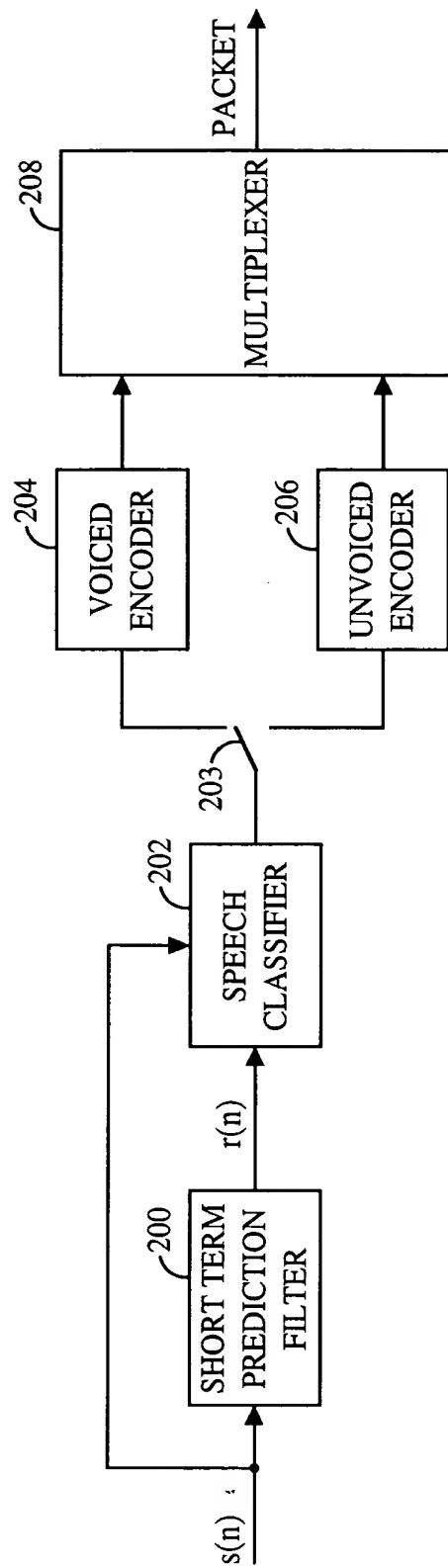


FIG. 2A

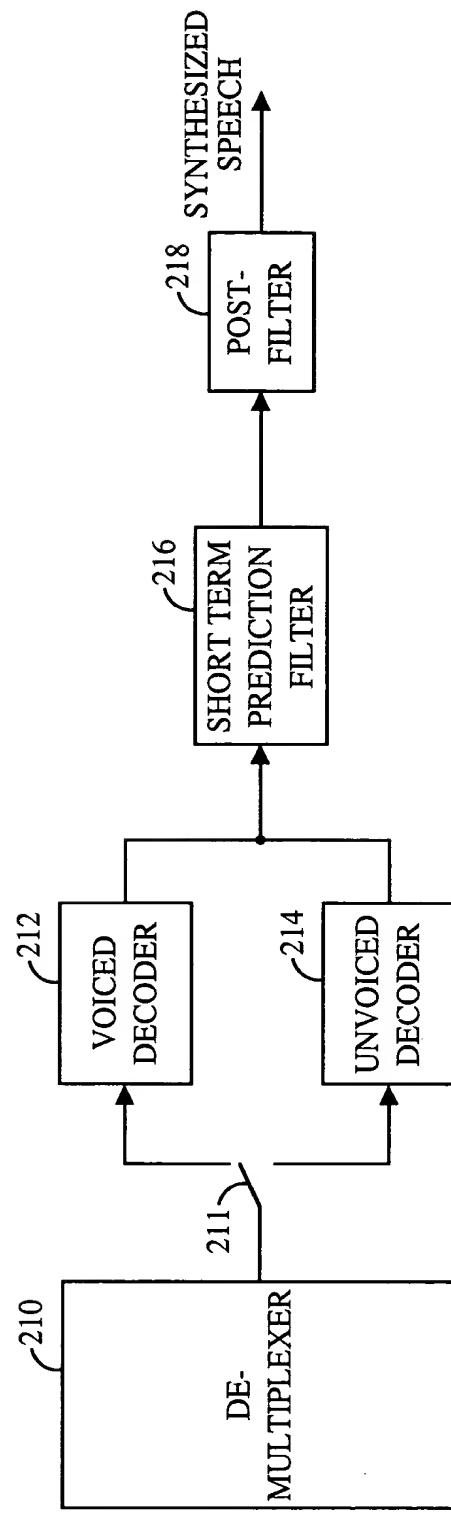


FIG. 2B

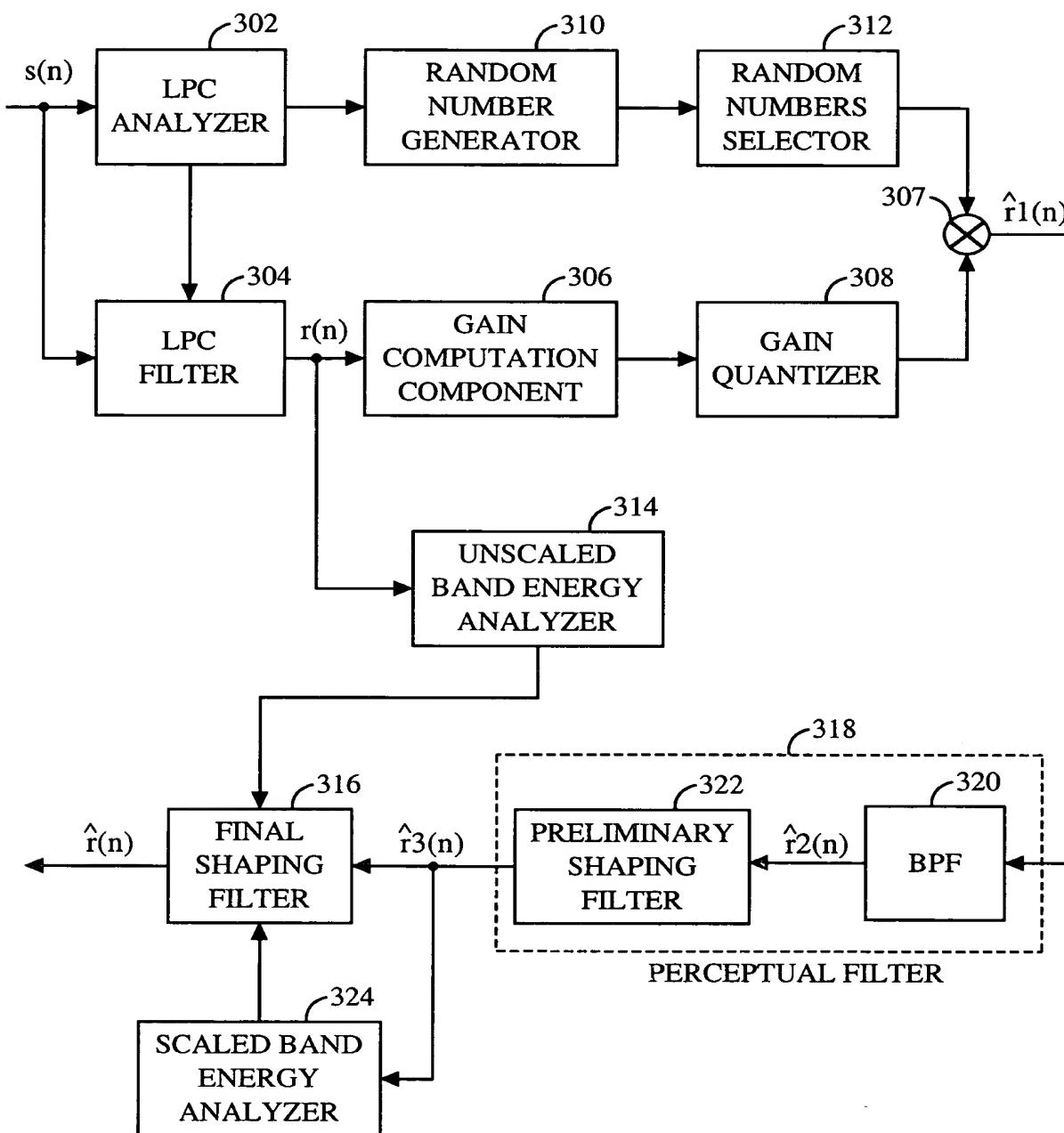


FIG. 3

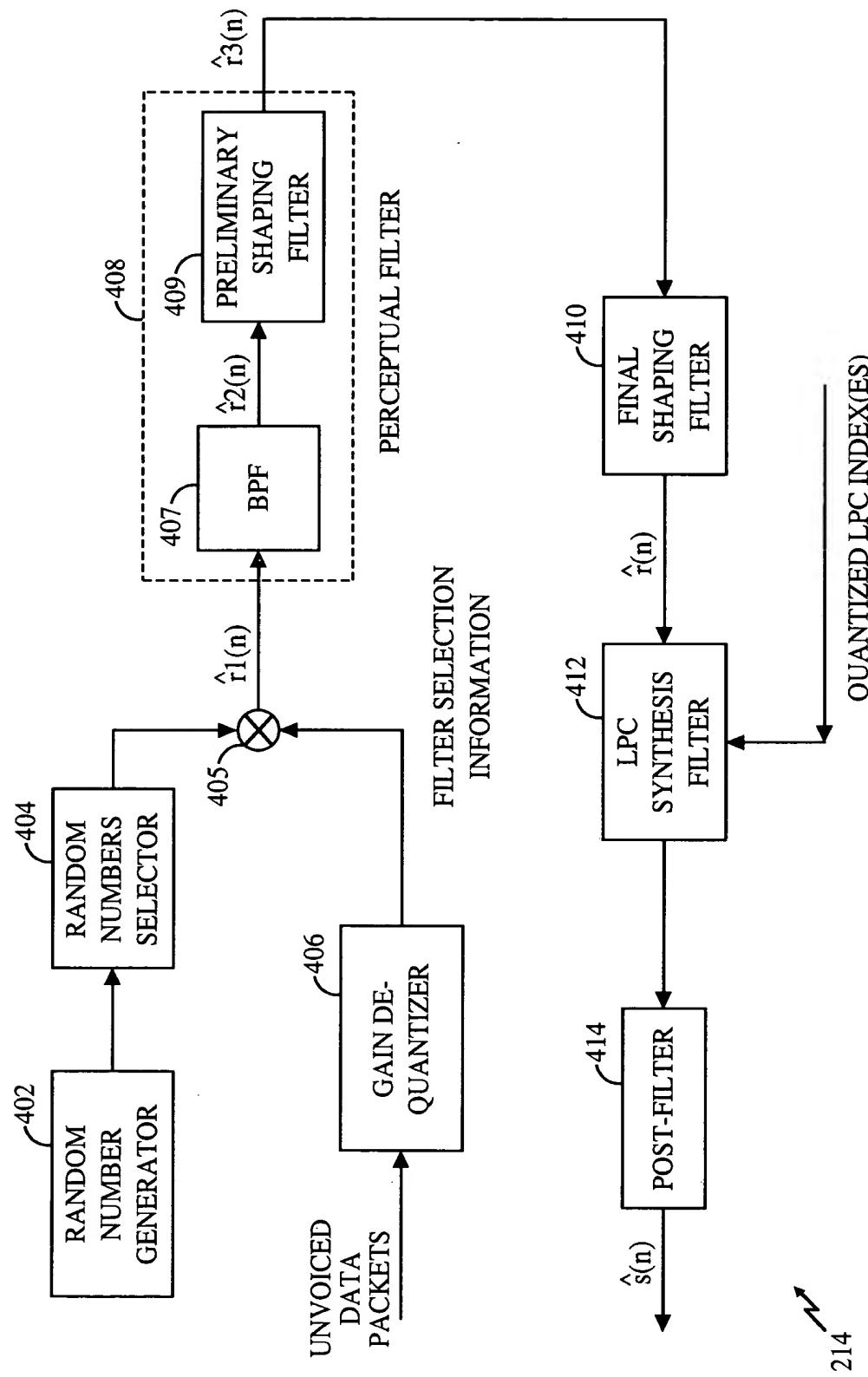


FIG. 4

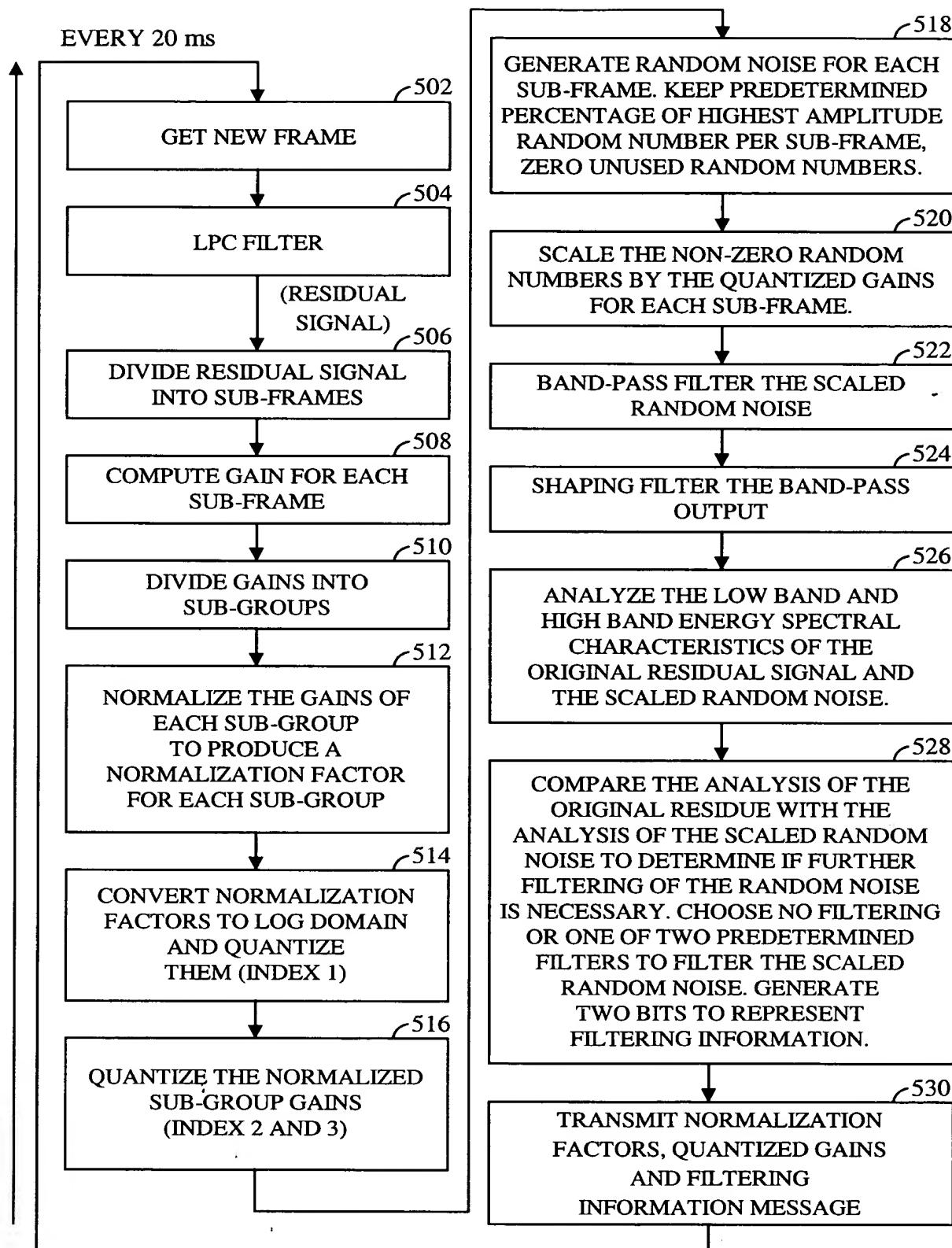


FIG. 5

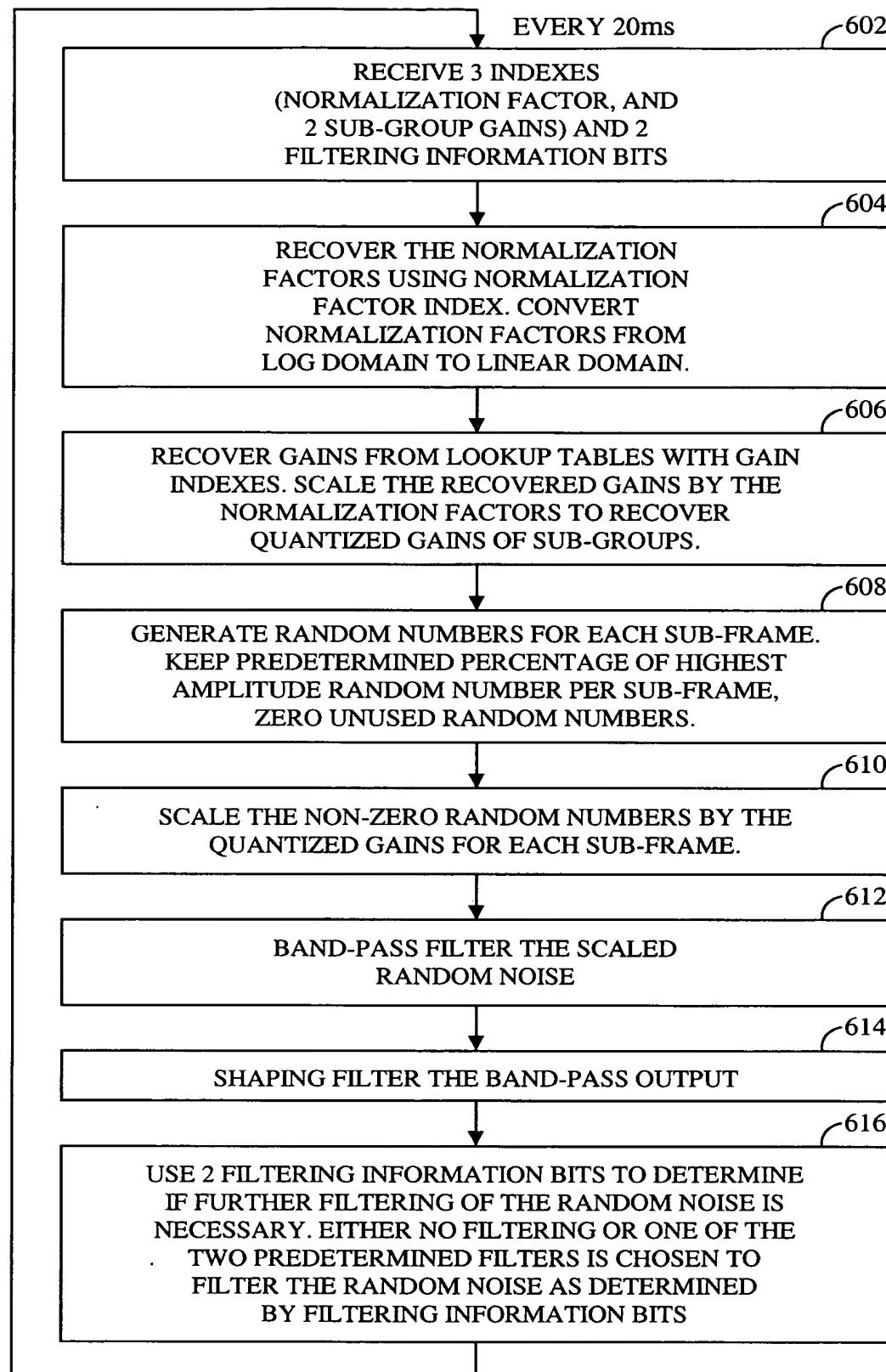


FIG. 6



LOW-PASS FILTER FREQUENCY RESPONSE
FOR BAND ENERGY ANALYSIS

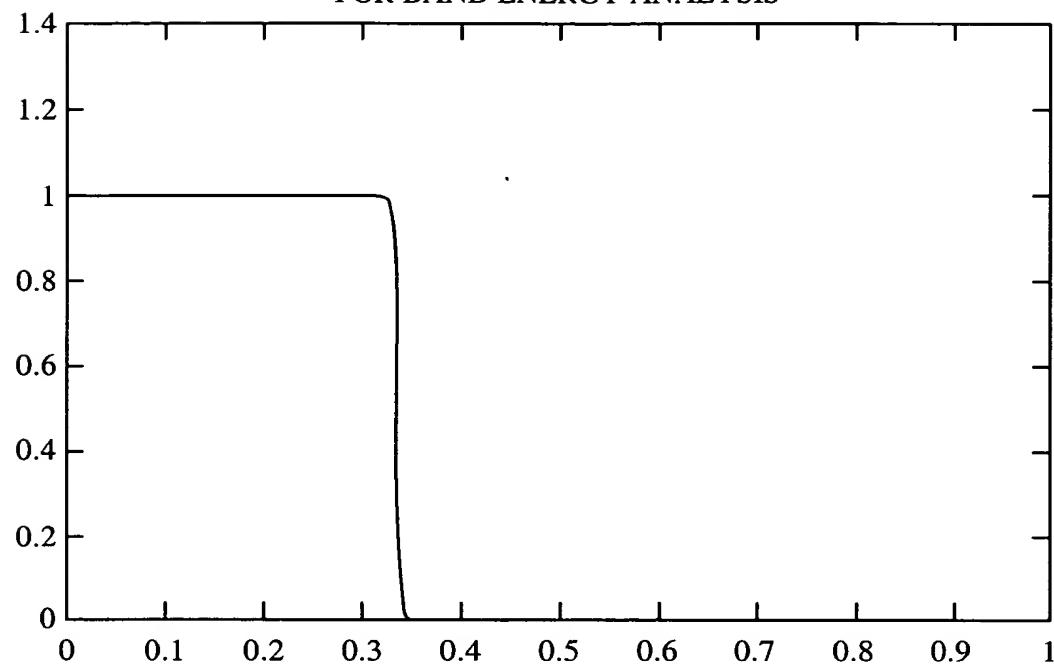


FIG. 7A

HIGH-PASS FILTER FREQUENCY RESPONSE
FOR BAND ENERGY ANALYSIS

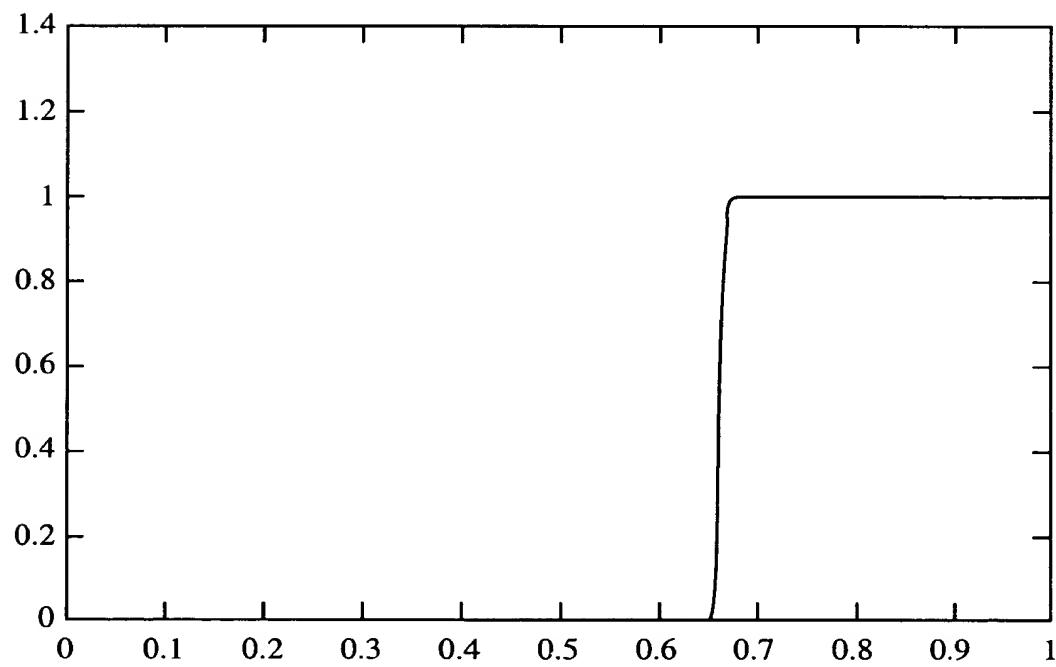


FIG. 7B



BAND-PASS FILTER FREQUENCY RESPONSE
FOR PERCEPTUAL FILTERING

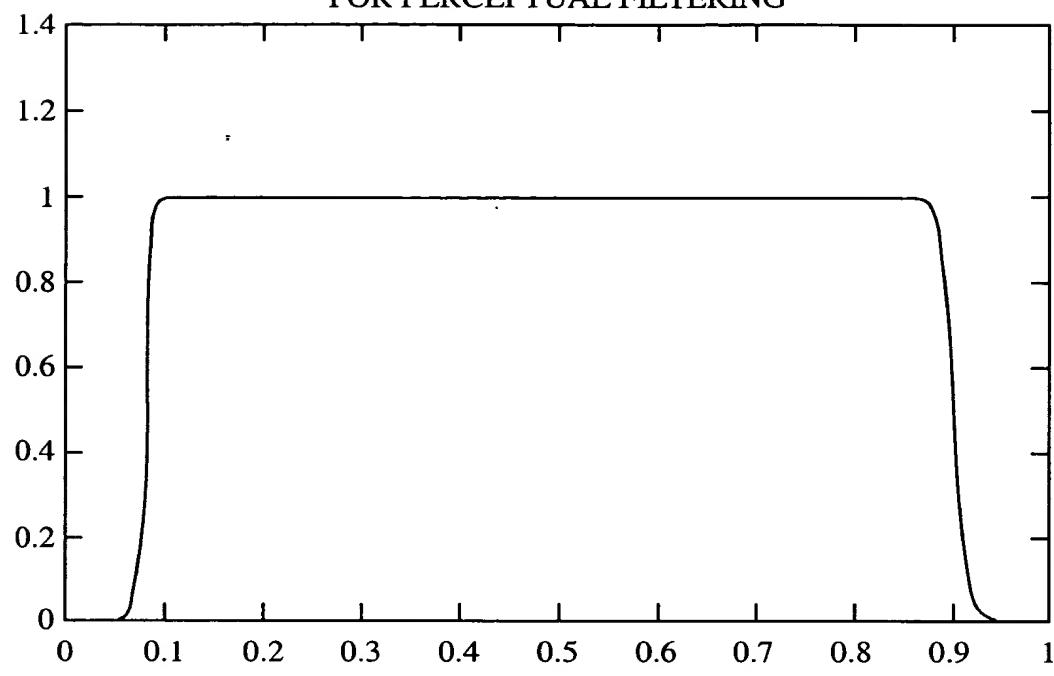


FIG. 8A

SHAPING FILTER 1 FREQUENCY RESPONSE
FOR PERCEPTUAL FILTERING

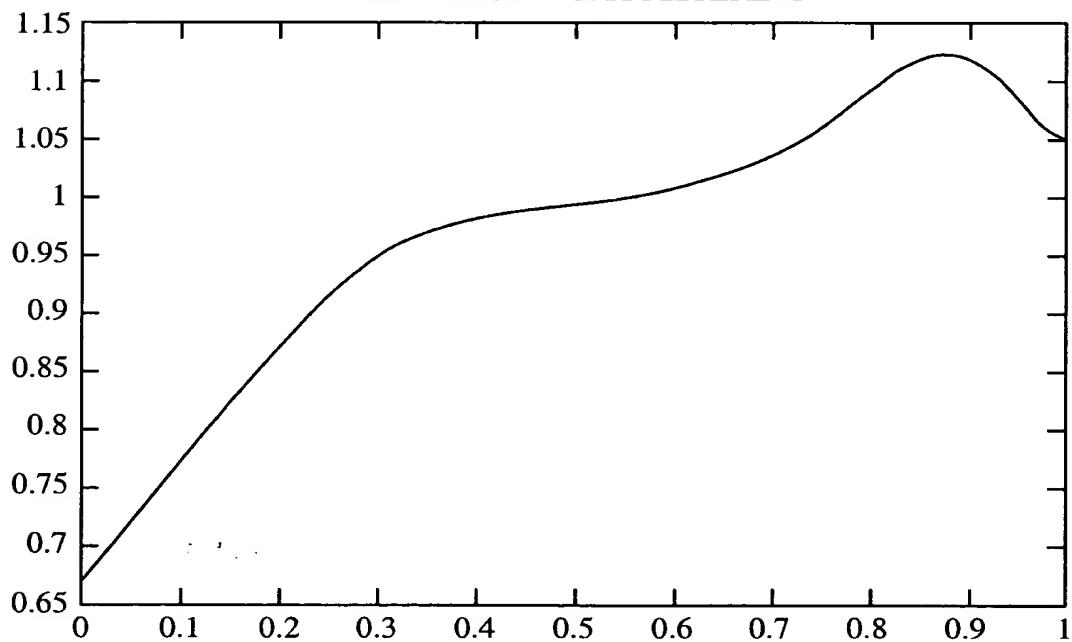


FIG. 8B



SHAPING FILTER 2 FREQUENCY RESPONSE
FOR PERCEPTUAL FILTERING

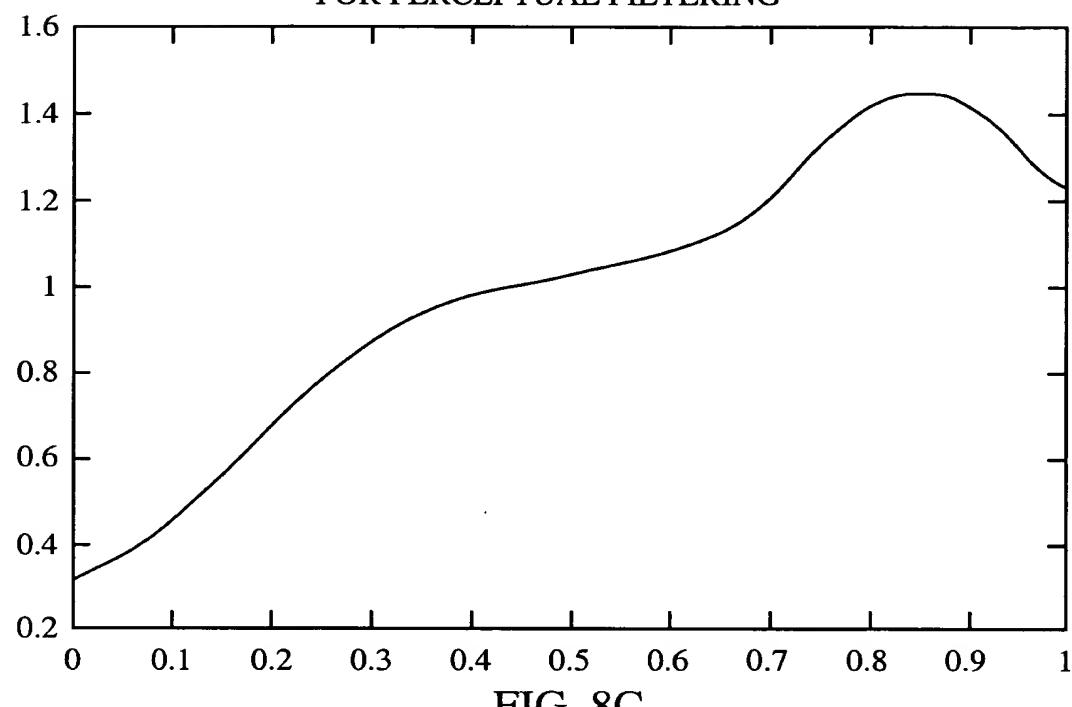


FIG. 8C

SHAPING FILTER 3 FREQUENCY RESPONSE
FOR PERCEPTUAL FILTERING

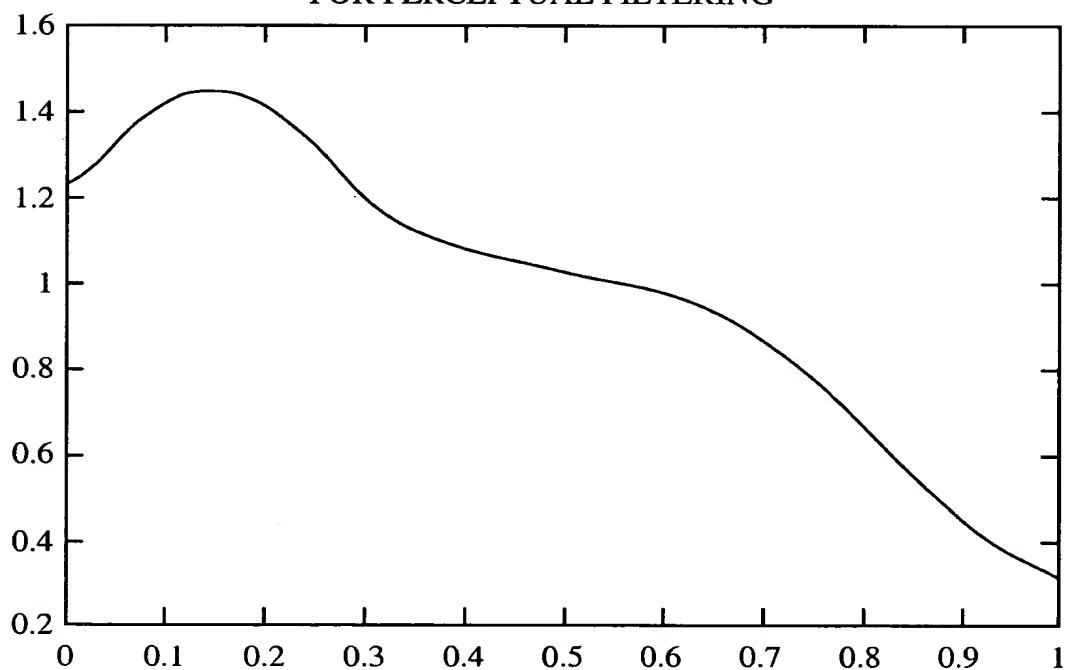


FIG. 8D